

AIR REGENERATING DEVICE FOR AIRCRAFT

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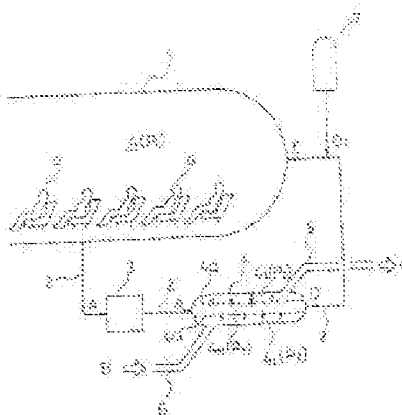
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Abstract of **JP 3061198 (A)**

PURPOSE:To reduce the amount of consumption of O2 cylinders by separating the circulating air inside an aircraft into a high CO2 concentration air and a low CO2 concentration air, and by introducing ram air into the high CO2 concentration air, so that the high CO2 concentration air can be discharged by the ram air to the outside of the aircraft.

CONSTITUTION:The air inside a cabin 1 is sent to a separator 4 through a circulating passage 2 via a filter 3. In the separator 4, only CO2 is permeated by a separation membrane 4a having a larger CO2 permeability and a lower O2 permeability to separate a high O2 concentration air from a high CO2 concentration air. And, by introducing ram air B into the low-pressure side 4L having a high CO2 concentration through an outside-air introducing passage 6, the high CO2 concentration air is discharged by the ram air B to the outside of the aircraft through a discharge passage 5. On the other hand, the high O2 concentration air on the high-pressure side is supplied with O2 from a cylinder 7 in the circulating passage 2, and then is returned to the cabin 1. By this constitution, the amount of consumption of O2 cylinders can be reduced.



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